

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	172	73/152.19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/16 10:47
L2	35	1 and sensor and (drill near4 string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/16 10:48
L3	24	2 and (chamber or reservoir or space)	USPAT	OR	ON	2007/09/16 10:48
L4	10	3 and (membrane or flexible or diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/16 10:48
L5	5	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6 and 4	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/16 10:49
L6	258	73/152.01.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/16 10:47
L7	333	73/152.18.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/16 10:48
L8	32	6 and sensor and (drill near4 string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/16 10:48
L9	18	7 and sensor and (drill near4 string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/16 10:48

## EAST Search History

L10	14	8 and (chamber or reservoir or space)	USPAT	OR	ON	2007/09/16 10:48
L11	11	9 and (chamber or reservoir or space)	USPAT	OR	ON	2007/09/16 10:48
L12	6	10 and (membrane or flexible or diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/16 10:48
L13	1	11 and (membrane or flexible or diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/16 10:48
L14	1	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6 and 12	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/16 10:49
L15	1	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6 and 13	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/16 10:49
S1	164	73/152.19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/16 10:33
S2	164	73/152.19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/15 12:57
S3	29	S2 and sensor and (drill near4 string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/16 10:34
S4	1	S3 and ((membrane or flexible or diaphragm) near4 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:36

## EAST Search History

S5	12	S3 and (membrane or flexible or diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/16 10:34
S6	9	S5 and gas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/15 13:33
S7	15	("3595075").URPN.	USPAT	OR	ON	2006/05/17 12:20
S8	164	73/152.19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:24
S9	29	S8 and sensor and (drill near4 string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 21:18
S10	12	S9 and (membrane or flexible or diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 00:20
S11	9	S10 and gas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:40
S12	5	S11 and (chamber or reservoir or space)	USPAT	OR	ON	2007/09/16 10:34
S13	175	sensor near4 (chamber or reservoir or space) and (drill near4 string)	USPAT	OR	ON	2006/05/17 12:39
S14	81	S13 and (membrane or flexible or diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:39

## EAST Search History

S15	70	S14 and gas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:40
S16	7	("20050063444"   "5859430"   "6037592"   "6465775"   "6627873"   "6850013"   "6880402").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/17 15:08
S17	3	S16 and membrane and sensor and gas	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/17 15:31
S18	1	S17 and (downhole or wellbore or drill\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/17 15:31
S19	1	S17 and (downhole or wellbore or drill\$4 or (drill near4 string))	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/18 16:55
S20	7	("20050063444"   "5859430"   "6037592"   "6465775"   "6627873"   "6850013"   "6880402").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/18 16:55
S21	3	S20 and membrane and sensor and gas	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/18 16:55
S22	1	S21 and (downhole or wellbore or drill\$4 or (drill near4 string))	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/18 16:55
S23	1	S22 and gas	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/18 20:17
S24	7619	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/18 20:18
S25	318	S24 and ((membrane or flexible or diaphragm) near4 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 20:39
S26	286	S25 and sensor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/18 20:57
S27	115	S26 and (chamber or reservoir or space)	USPAT	OR	ON	2006/05/18 21:18

## EAST Search History

S28	35	S27 and (drill near4 string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 23:10
S29	164	73/152.19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 00:06
S30	7619	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/19 00:06
S31	24	S30 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 00:06
S32	164	73/152.19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 02:42
S33	7619	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/19 02:44
S34	24	S33 and S32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 00:18
S35	13	S34 and (chamber or reservoir or space)	USPAT	OR	ON	2006/05/19 00:19
S36	13	S34 and (chamber or reservoir or space)	USPAT	OR	ON	2006/05/19 00:19
S37	5	S36 and (membrane or flexible or diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 02:21

## EAST Search History

S38	4	S37 and sensor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 02:22
S39	4	S38 and (membrane or flexible or diaphragm or barrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 01:22
S40	2	S38 and (membrane or diaphragm or barrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 02:44
S41	4	S36 and (membrane or diaphragm or barrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 02:38
S42	4	S41 and sensor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 02:22
S43	245	73/152.01.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:07
S44	110	73/152.23.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:07
S45	88	73/152.28.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:09

## EAST Search History

S46	29	S43 and (membrane or diaphragm or barrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 02:44
S47	23	S44 and (membrane or diaphragm or barrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 02:44
S48	12	S45 and (membrane or diaphragm or barrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/19 02:44
S49	3	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6 and S46	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/19 02:44
S50	4	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6 and S47	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/19 02:45
S51	2	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6 and S48	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/19 02:47
S52	6	US-5469917-\$.DID. OR US-5351532-\$.DID. OR US-4887464-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/24 13:16
S53	3	S52 and (membrane or flexible or diaphragm or barrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/24 13:18
S54	2	S53 and sensor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/24 13:20

## EAST Search History

S55	2	S54 and (chamber or compartment or space or gap or channel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:21
S56	164	73/152.19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:14
S57	315	73/152.18.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:14
S58	246	73/152.01.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:14
S59	36	S56 and (membrane or flexible or diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:20
S60	52	S57 and (membrane or flexible or diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:20
S61	50	S58 and (membrane or flexible or diaphragm)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:20
S62	30	S59 and (chamber or compartment or space or gap or channel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:40



## EAST Search History

S63	42	S60 and (chamber or compartment or space or gap or channel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:36
S64	39	S61 and (chamber or compartment or space or gap or channel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:21
S65	24	S62 and gas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:41
S66	27	S63 and gas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 22:52
S67	20	S64 and gas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/11 01:02
S68	5	("3813935").URPN.	USPAT	OR	ON	2006/06/10 22:51
S69	7703	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/11 01:03
S70	324	S69 and ((membrane or flexible or diaphragm) near4 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 23:10
S71	291	S70 and sensor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 23:10
S72	119	S71 and (chamber or reservoir or space)	USPAT	OR	ON	2006/06/10 23:10

## EAST Search History

S73	39	S72 and (drill near4 string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 23:11
S74	279	S71 and (chamber or compartment or space or gap or channel or reservoir)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/11 01:03
S75	99	S74 and (drill near4 string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/10 23:12
S76	90	S75 and membrane	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/11 01:04
S77	28	("1865912"   "20020189339"   "3730269"   "4658897"   "4673037"   "4852069"   "5165438"   "5184678"   "5214251"   "5228508"   "5309997"   "5477101"   "5505262"   "5586602"   "5644076"   "5676213"   "5770798"   "5836389"   "5969241"   "6015010"   "6102152"   "6164126"   "6230799"   "6460618"   "6474349"   "6619394"   "6700338").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/10 23:41
S78	90	S76 and gas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/11 01:04
S79	5	S68 and (chamber or compartment or space or gap or channel or reservoir)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/11 01:03
S80	2	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6 and S79	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/16 10:34

## EAST Search History

S81	0	S80 and membrane	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/11 01:04
S82	5	S79 and gas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/11 01:04
S83	0	S82 and membrane	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/11 01:04
S84	90	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6 and S78	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/21 23:22
S85	170	73/152.19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 02:19
S86	8265	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/21 23:22
S87	347	S86 and ((membrane or flexible or diaphragm) near4 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 01:29
S88	312	S87 and sensor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 01:29
S89	300	S88 and (chamber or compartment or space or gap or channel or reservoir)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 01:29

## EAST Search History

S90	116	S89 and (drill near4 string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 01:29
S91	104	S90 and membrane	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/21 23:22
S92	104	S91 and gas	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/21 23:22
S93	104	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6 and S92	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/22 01:40
S94	104	S93 and (formation near6 gas)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/22 00:51
S95	1	S94 and (sensor near6 (chamber or compartment or space or gap or channel or reservoir))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/21 23:43
S96	1	S94 and (hydrophobic and oleophobic)	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/21 23:45
S97	2	US-5144831-\$.DID. OR US-5608167-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/22 00:51
S98	1	S97 and ((membrane or flexible or diaphragm) near4 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 01:29
S99	1	S98 and sensor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 01:29

## EAST Search History

S10 0	1	S99 and (chamber or compartment or space or gap or channel or reservoir)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 01:40
S10 1	0	S100 and (drill near4 string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 01:29
S10 2	0	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and drill\$6 and S100	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/22 01:40
S10 3	0	(gas or methane or (carbon adj dioxide) or nitrogen) and wellbore and S100	US-PGPUB; USPAT; USOCR	OR	ON	2006/11/22 01:40
S10 4	170	73/152.19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 02:20
S10 5	252	73/152.01.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 02:19
S10 6	322	73/152.18.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/22 02:20
S10 7	170	73/152.19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:06
S10 8	254	73/152.01.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:07

## EAST Search History

S10 9	115	73/152.23.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:07
S11 0	94	73/152.28.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:49
S11 1	11	S107 and (sensor near6 chamber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:47
S11 2	5	S108 and (sensor near6 chamber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:54
S11 3	9	S109 and (sensor near6 chamber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:54
S11 4	4	S110 and (sensor near6 chamber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:54
S11 5	1	S111 and ((membrane or flexible or diaphragm) near4 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:56
S11 6	0	S112 and ((membrane or flexible or diaphragm) near4 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 19:46

## EAST Search History

S11 7	0	S113 and ((membrane or flexible or diaphragm) near4 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:54
S11 8	0	S114 and ((membrane or flexible or diaphragm) near4 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:54
S11 9	1514	(sensor near6 chamber) and ((membrane or flexible or diaphragm) near4 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 16:56
S12 0	4413	sensor and (drill near4 string)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:06
S12 1	8	S119 and S120	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:16
S12 2	3	S121 and (volume near6 gas)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:18
S12 3	2	S122 and (formation near6 gas)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:18
S12 4	2629	(volume near6 gas) and (sensor near6 chamber)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:47

## EAST Search History

S12 5	21	S120 and S124	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 17:48
S12 6	3	S125 and ((membrane or flexible or diaphragm) near4 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/05 19:54
S12 7	2	US-6272938-\$.DID. OR US-5979219-\$.DID	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:35
S12 8	0	US-5979219-\$.DID	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:34
S12 9	62	73/19.12.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:34
S13 0	1	S129 and (sellmer.in.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:34
S13 1	4	US-6272938-\$.DID. OR US-5979219-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:35



## EAST Search History

S13 2	0	S130 and drillstring	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:35
S13 3	0	S130 and (drill near4 string)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:35
S13 4	170	73/152.19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:36
S13 5	1	S131 and ((membrane or flexible or diaphragm) near4 wall)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:36
S13 6	1	S135 and sensor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:36
S13 7	1	S136 and (chamber or compartment or space or gap or channel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:49
S13 8	1	S137 and (well or wellbore or borehole or downhole)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/21 13:49
S13 9	170	73/152.19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:08

## EAST Search History

S14 0	119	73/152.23.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:08
S14 1	95	73/152.28.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:09
S14 2	257	73/152.01.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:09
S14 3	7	S139 and sensor and ((drill near4 string) or well or wellbore or (down near4 hole)) and chamber and (membrane or barrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:26
S14 4	7	S140 and sensor and ((drill near4 string) or well or wellbore or (down near4 hole)) and chamber and (membrane or barrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:11
S14 5	2	S141 and sensor and ((drill near4 string) or well or wellbore or (down near4 hole)) and chamber and (membrane or barrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:11
S14 6	6	S142 and sensor and ((drill near4 string) or well or wellbore or (down near4 hole)) and chamber and (membrane or barrier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:11
S14 7	1	S143 and (passage near6 gas)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:12

## EAST Search History

S14 8	0	S144 and (passage near6 gas)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:12
S14 9	0	S145 and (passage near6 gas)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:12
S15 0	0	S146 and (passage near6 gas)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:12
S15 1	3	"7100689".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 16:42
S15 2	0	S151 and (thermal near4 conductivity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 16:42
S15 3	1	S151 and (heater or (heat near4 source))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 16:42